Arnold D Gomez

List of Publications by Year
in descending order

20 papers	167 citations	1478505 6 h-index	1199594 12 g-index
20 all docs	20 docs citations	20 times ranked	146 citing authors

#	Article	IF	Citations
1	In vivo estimates of axonal stretch and 3D brain deformation during mild head impact. Brain Multiphysics, 2020, 1, 100015.	2.3	43
2	3-D Measurements of Acceleration-Induced Brain Deformation via Harmonic Phase Analysis and Finite-Element Models. IEEE Transactions on Biomedical Engineering, 2019, 66, 1456-1467.	4.2	30
3	Phase Vector Incompressible Registration Algorithm for Motion Estimation From Tagged Magnetic Resonance Images. IEEE Transactions on Medical Imaging, 2017, 36, 2116-2128.	8.9	26
4	Right Ventricular Fiber Structure as a Compensatory Mechanism in Pressure Overload: A Computational Study. Journal of Biomechanical Engineering, 2017, 139, .	1.3	11
5	Motion Estimation with Finite-Element Biomechanical Models and Tracking Constraints from Tagged MRI. , 2017, 2017, 81-90.		11
6	A Sparse Non-Negative Matrix Factorization Framework for Identifying Functional Units of Tongue Behavior From MRI. IEEE Transactions on Medical Imaging, 2019, 38, 730-740.	8.9	9
7	Analysis of fiber strain in the human tongue during speech. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 312-322.	1.6	6
8	A deep joint sparse non-negative matrix factorization framework for identifying the common and subject-specific functional units of tongue motion during speech. Medical Image Analysis, 2021, 72, 102131.	11.6	6
9	Group characterization of impact-induced, in vivo human brain kinematics. Journal of the Royal Society Interface, 2021, 18, 20210251.	3.4	5
10	Accurate High-Resolution Measurements of 3-D Tissue Dynamics With Registration-Enhanced Displacement Encoded MRI. IEEE Transactions on Medical Imaging, 2014, 33, 1350-1362.	8.9	4
11	Laplace-based modeling of fiber orientation in the tongue. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1119-1130.	2.8	4
12	Quantifying Tensor Field Similarity with Global Distributions and Optimal Transport. Lecture Notes in Computer Science, 2018, 11071, 428-436.	1.3	4
13	Quantifying Tongue Tip Shape in Apical and Laminal /s/: Contributions of Palate Shape. Journal of Speech, Language, and Hearing Research, 2019, 62, 3149-3159.	1.6	3
14	Test suite for image-based motion estimation of the brain and tongue. , 2017, 10137, .		2
15	Direct Reconstruction of Crossing Muscle Fibers in the Human Tongue Using a Deep Neural Network. Mathematics and Visualization, 2021, , 69-80.	0.6	1
16	Inverse biomechanical modeling via machine learning and synthetic training data. , 2018, 10576, .		1
17	A novel filtering approach for 3D harmonic phase analysis of tagged MRI. , 2018, 10574, .		1
18	Atlas of Acceleration-Induced Brain Deformation from Measurements In Vivo. , 2019, , 3-14.		0

#	Article	IF	Citations
19	Quantitative Validation of MRI-Based Motion Estimation for Brain Impact Biomechanics. , 2020, , 61-71.		0
20	Incompressible Phase Registration for Motion Estimation from Tagged Magnetic Resonance Images. Lecture Notes in Computer Science, 2017, , 24-33.	1.3	0